

CLAIMS:

- 1 A video signal recording apparatus comprising:
  - a video and audio memorizing section for temporarily memorizing an inputted video audio signal;
- 5 an auxiliary information memorizing section for temporarily memorizing auxiliary information appended to the video audio signal;
  - a memory control device for controlling write and read operations of the video audio signal with respect to the video and audio memorizing section and controlling write and read operations of the auxiliary information with respect to the auxiliary information memorizing section; and
  - 10 a recording device for sequentially recording the video audio signal read from the video and audio memorizing section and the auxiliary information read from the auxiliary information memorizing section on a recording medium, wherein the memory control device stores the video audio signals equivalent to a time length equal to or exceeding an amount of time required from a time point when a recording-start request
  - 15 with respect to the recording medium is made until the recording actually starts with respect to the recording medium in the video and audio memorizing section to thereby delay the video audio signals by an amount of time during which the video audio signals are stored and records the delayed video audio signals
  - 20 on the recording medium, and
  - 25 the memory control device further stores the auxiliary information appended to the video audio signals in the auxiliary information memorizing section for a time period substantially equal to the delay of the video audio signals to thereby delay the auxiliary information by an amount of time during which the auxiliary information is stored and records the delayed auxiliary information on the recording medium.
- 30 2. A video signal recording apparatus as claimed in Claim

1, wherein

the auxiliary information includes time code information for specifying a chronological position on the video audio signal, absolute time information of the video audio signal, and position information at the time of photographing the video audio signal.

3. A video signal recording apparatus as claimed in Claim 1, wherein

the recording medium is a recording medium of a tape type,

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the auxiliary information is a CUE audio signal recorded in a linear track along a longitudinal direction of the tape in the recording medium, wherein the CUE audio signal is an audio signal of a channel optionally selected from the video audio signals or an audio signal combining the optionally selected audio signals of a plurality of channels.

4. A video signal recording apparatus as claimed in Claim 1, wherein

the memory control device controls the write operations with respect to the video and audio memorizing section and the auxiliary information memorizing section so as to implement an intermittent video photographing per an interval shorter than the amount of time required from the time point when the recording-start request with respect to the recording medium is made until the recording actually starts with respect to the recording medium.

5. A video signal recording apparatus as claimed in Claim 1, wherein

the recording device reads a time code in the previously recorded auxiliary information previously recorded on the recording medium and positioned immediately prior to a next recording-start position on the recording medium, generates a regeneration value obtained by adding a frame time to the

read time code, and replaces the time code in the previously recorded auxiliary information outputted from the auxiliary information memorizing section immediately before the next recording starts with a serial value starting with the 5 regeneration value to thereby record the auxiliary information with the replacing result in the next recording, and

the recording device corrects the regeneration value in the generation process thereof by an amount of delay corresponding to a storage volume memorized in the auxiliary 10 information memorizing section to thereby reflect the corrected regeneration value on a state at the time of time code generation so that a time difference between times corresponding to the time code on the recording medium and the time code generation is eliminated.

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